COMMONS

File:Westinghouse experimental 700 MHz transmitter 1932.jpg

Download all sizes

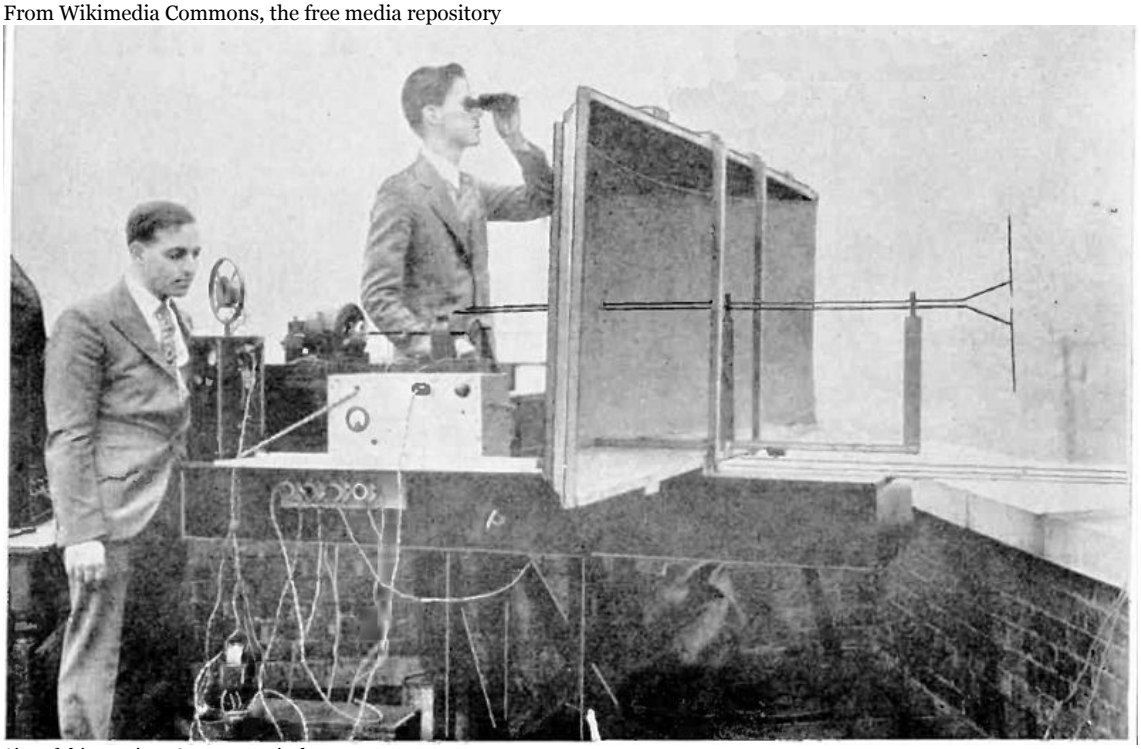
Use this file on the web

Use this file on a wiki

Email a link to this file

Information about reusing

From Wikimedia Commons, the free media repository



Size of this preview: 800 × 507 pixels.

Original file (1,042 × 660 pixels, file size: 118 KB, MIME type: image/jpeg)

Open in Media Viewer

File information Structured data

Captions	Edit
English	Add a one-line explanation of what this file represents

Summary

Description	**English:** An experimental 700 MHz microwave transmitter on the roof of the Westinghouse office building in 1932, part of early research that resulted in microwave relay systems by the 1940s. The 16 inch waves radiated by the vertical dipole *(right)* are focused into a beam by the cylindrical parabolic reflector, which is received by another parabolic antenna a mile away. The microwaves were probably generated by a Split-anode magnetron, an obsolete vacuum tube oscillator that was one of the few sources of microwaves at that time.
Date	April 1932
Source	Retrieved March 19, 2015 from *Short Wave Craft* magazine, Popular Book Co., New York, Vol. 2, No. 6, April 1932, p. 378 (http://www.americanradiohistory.com/Archive-Short-Wave-Television/30s/SW-TV-1932-04.pdf) on http://www.americanradiohistory.com
Author	Unknown
Permission (Reusing this file)	This 1932 issue of *Short Wave Craft* magazine would have the copyright renewed in 1960. Online page scans of the Catalog of Copyright Entries, published by the US Copyright Office can be found here (http://onlinebooks.library.upenn.edu/cce/). Search of the Renewals for Periodicals for 1959, 1960, and 1961 show no renewal entries for *Short Wave Craft*. Therefore the copyright was not renewed and it is in the public domain.

Licensing

*This work is in the **public domain** because it was published in the United States between 1924 and 1963 and although there may or may not have been a copyright notice, the **copyright was not renewed**. Unless its author has been dead for the required period, it is **copyrighted** in the countries or areas that do not apply the*

rule of the shorter term for US works, such as Canada (50 pma), Mainland China (50 pma, not Hong Kong or Macao), Germany (70 pma), Mexico (100 pma), Switzerland (70 pma), and other countries with individual treaties. See Commons:Hirtle chart for further explanation.

Deutsch (https://commons.wikimedia.org/wiki/Template:PD-US-not_renewed/de) | English (https://commons.wikimedia.org/wiki/Template:PD-US-not_renewed/en) | español (https://commons.wikimedia.org/wiki/Template:PD-US-not_renewed/es) | français (https://commons.wikimedia.org/wiki/Template:PD-US-not_renewed/fr) | italiano (https://commons.wikimedia.org/wiki/Template:PD-US-not_renewed/it) | 日本語 (https://commons.wikimedia.org/wiki/Template:PD-US-not_renewed/ja) | 한국어 (https://commons.wikimedia.org/wiki/Template:PD-US-not_renewed/ko) | македонски (https://commons.wikimedia.org/wiki/Template:PD-US-not_renewed/mk) | português (https://commons.wikimedia.org/wiki/Template:PD-US-not_renewed/pt) | português do Brasil (https://commons.wikimedia.org/wiki/Template:PD-US-not_renewed/pt-br) | русский (https://commons.wikimedia.org/wiki/Template:PD-US-not_renewed/ru) | українська (https://commons.wikimedia.org/wiki/Template:PD-US-not_renewed/uk) | 中文（台灣） (https://commons.wikimedia.org/wiki/Template:PD-US-not_renewed/zh-tw) | +/− (https://commons.wikimedia.org/w/index.php?title=Template:PD-US-not_renewed/lang&action=edit)

File history

Click on a date/time to view the file as it appeared at that time.

	Date/Time	Thumbnail	Dimensions	User	Comment
current	**01:14, 2 November 2015**		1,042 × 660 (118 KB)	Chetvorno (talk | contribs)	User created page with UploadWizard

You cannot overwrite this file.

File usage on Commons

There are no pages that use this file.

File usage on other wikis

The following other wikis use this file:

- Usage on en.wikipedia.org
  - Microwave
- Usage on ru.wiktionary.org
  - mikrovåg

Retrieved from "https://commons.wikimedia.org/w/index.php?title=File:Westinghouse_experimental_700_MHz_transmitter_1932.jpg&oldid=304805480"

This page was last edited on 5 June 2018, at 22:55.

Files are available under licenses specified on their description page. All structured data from the file and property namespaces is available under the Creative Commons CC0 License; all unstructured text is available under the Creative Commons Attribution-ShareAlike License; additional terms may apply. By using this site, you agree to the Terms of Use and the Privacy Policy.